

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Air Force									DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0101313F: STRAT WAR PLANNING SYS - USSTRATCOM							
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	17.013	33.746	28.441	0.000	28.441	20.026	20.223	9.940	10.109	Continuing	Continuing
675059: Strategic War Planning System (SWPS)	10.614	10.429	18.904	0.000	18.904	10.434	10.481	0.000	0.000	0.000	0.000
675282: Joint Navigation Warfare Center (JNWC)	6.399	8.267	9.529	0.000	9.529	9.583	9.729	9.924	10.092	Continuing	Continuing
675368: GSIN (Global Sensor Integrated Network)	0.000	15.050	0.008	0.000	0.008	0.009	0.013	0.016	0.017	Continuing	Continuing
Note In FY2010 Project 5368, Global Sensor Integrated Network (GSIN) transferred from PE 0105921F, Service Support to STRATCOM Space Activities, in order to better align effort and appropriation.											
A. Mission Description and Budget Item Justification The mission of USSTRATCOM is to establish and provide full-spectrum global strike, coordinated space and information operations capabilities to meet both deterrent and decisive national security objectives, and to provide operational space support, integrated missile defense, Global Command Control Communications and Computers Intelligence Surveillance and Reconnaissance (C4ISR), and specialized planning expertise to the joint warfighter. This mission has been defined by the 2002 Unified Command Plan (UCP) changes 1 and 2. To enable completion of these missions, USSTRATCOM is modernizing the Integrated Strategic Planning and Analysis Network (ISPAN) (formerly known as SWPS), developing information systems and techniques to counter and conduct Navigation Warfare (NAVWAR) and establishing a unified national architecture integrating disparate Missile Warning/Missile Defense (MW/MD) systems into a single Internet Protocol (IP)-based system known as the Global Sensor Integrated Network (GSIN) to provide redundant and unambiguous MW/MD data to national leadership. When the ISPAN modernization is complete the system will support the warfighter in both deliberate and adaptive planning environments while allowing the National Command Authorities to employ the full spectrum of kinetic and non-kinetic weapons. The ISPAN system will continue to evolve as weapon systems are matured, new systems are developed, and the threat changes, particularly in the area of worldwide proliferation of Weapons of Mass Destruction (WMD). Navigation Warfare (NAVWAR) is a warfighting application of electronic warfare (EW), Information Operations (IO) and space control (SC) employing various techniques and technologies to negate or prevent hostile use of positioning, navigation, and timing (PNT) information and protect unimpeded use of PNT information by U.S., Allied, and Coalition Forces while not unduly disrupting peaceful use outside an area of operation. The Joint Navigation Warfare Center (JNWC) was established											

UNCLASSIFIED

R-1 Line Item #121

Page 1 of 28

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Air Force		DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE			
3600: Research, Development, Test & Evaluation, Air Force		PE 0101313F: STRAT WAR PLANNING SYS - USSTRATCOM			
BA 7: Operational Systems Development					
to integrate and coordinate NAVWAR PNT capabilities across the mission areas of intelligence, surveillance, reconnaissance, information operations, electronic warfare, and space control. The JNWC is also commissioned to integrate NAVWAR into space operations and assists the warfighter with subject matter expertise to “operationalize” NAVWAR, encouraging the NAVWAR view that the Global Positioning System is a taskable weapons system in addition to being a worldwide PNT service. The JNWC establishes and maintains the Department’s premier basis of NAVWAR expertise, and provides subject matter expertise and knowledge support to warfighters, Department decision makers, the Federal Interagency (the Department of Homeland Security and other civil agencies concerned with the Critical National Infrastructure), and the coalition through testing and evaluation; modeling, simulation and analysis; and exercise and training support.					
The Nation's strategic C2, sensors and mission planning programs can not rapidly exchange information across multiple missions, creating ambiguity that delays time critical national C2 decision making processes. GSIN establishes a unified national architecture integrating disparate MW/MD systems into a single IP-based system providing redundant and unambiguous MW/MD data to national leadership. GSIN nets together all sensors, from tactical to strategic, including the Nation's most modern and capable assets - taking advantage of their larger numbers, improved algorithms, mobility and forward deployment to provide earlier cross-cueing and expanded decision space when every second counts. GSIN will permit an IP-based UDOP to augment voice conferencing and rapidly build a single, unambiguous missile event picture allowing real-time senior collaboration for nuclear C2 and improved senior leader situational awareness (SA) and decision-making.					
All SWPS development efforts (including ISPAN, JNWC and GSIN development activities) are in budget activity 7, Operational System Development, because their systems are operational, and currently support capabilities to create, verify, and produce OPLAN 8010, meet new UCP taskings, and produce other products.					
B. Program Change Summary (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	17.505	33.836	0.000	0.000	0.000
Current President's Budget	17.013	33.746	28.441	0.000	28.441
Total Adjustments	-0.492	-0.090	28.441	0.000	28.441
• Congressional General Reductions		0.000			
• Congressional Directed Reductions		0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds		0.000			
• Congressional Directed Transfers		0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	-0.492	-0.090	28.441	0.000	28.441

UNCLASSIFIED

R-1 Line Item #121

Page 2 of 28

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Air Force		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0101313F: STRAT WAR PLANNING SYS - USSTRATCOM	
<p><u>Change Summary Explanation</u></p> <p>- FY10 increase is for the Global Sensor Integrated Network (GSIN) effort.</p> <p>- FY11decrease reflects completion of the ISPAN Block 1 effort, ramp up of the ISPAN Increment 2 effort and reduction of GSIN development for higher Air Force priorities.</p>		

UNCLASSIFIED

R-1 Line Item #121

Page 3 of 28

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force								DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>				R-1 ITEM NOMENCLATURE PE 0101313F: <i>STRAT WAR PLANNING SYS - USSTRATCOM</i>				PROJECT 675059: <i>Strategic War Planning System (SWPS)</i>			
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
675059: <i>Strategic War Planning System (SWPS)</i>	10.614	10.429	18.904	0.000	18.904	10.434	10.481	0.000	0.000	0.000	0.000
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
A. Mission Description and Budget Item Justification <p>The mission of USSTRATCOM is to establish and provide full-spectrum global strike, coordinated space and information operations capabilities to meet both deterrent and decisive national security objectives, and to provide operational space support, integrated missile defense, Global Command Control Communications and Computers Intelligence Surveillance and Reconnaissance (C4ISR), and specialized planning expertise to the joint warfighter. This mission has been defined by the 2002 Unified Command Plan (UCP) changes 1 and 2. To enable these missions, the Integrated Strategic Planning and Analysis Network (ISPAN) (formerly known as SWPS) must be capable of both deliberate and adaptive planning employing the full spectrum of kinetic and non-kinetic weapons. The planning system will continue to evolve as weapon systems are matured, new systems are developed, and the threat changes, particularly in the area of worldwide proliferation of Weapons of Mass Destruction (WMD).</p> <p>The ISPAN modernization program includes initiation of Course of Action (COA) Development as a service to the DoD enterprise, workflow and decision support development, Combatant Commander (COCOM) Collaboration (Global Operations Center Collaborative Environment (GOC CE), User Defined Operational Picture (UDOP)), conventional mission planning integration, and Mission Planning Analysis System (MPAS) maintenance and modernization. This includes software coding, integration of multiple internal and external planning applications, as well as developmental and early operational test activities. ISPAN also includes automated data processing equipment (ADPE), software, facilities support, manpower, and training to support the mission objectives of ISPAN, associated deployable and distributed data processing nodes, and subsidiary systems. Activities also include studies and analysis to support both current program planning and execution and future program planning.</p>											
B. Accomplishments/Planned Program (\$ in Millions)											
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
MAJOR THRUST: ISPAN Block 1 Modernization (MPAS)						1.484	0.000	0.000	0.000	0.000	

UNCLASSIFIED

R-1 Line Item #121

Page 4 of 28

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force				DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development		R-1 ITEM NOMENCLATURE PE 0101313F: STRAT WAR PLANNING SYS - USSTRATCOM		PROJECT 675059: Strategic War Planning System (SWPS)		
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2009 Accomplishments: In FY 2009: Funds completed development of the Dynamic Application and Rapid Targeting System (DARTS) and of a Graphical Editor for the legacy Mission Planning and Analysis System (MPAS)						
FY 2010 Plans: In FY 2010: N/A						
FY 2011 Base Plans: In FY 2011: N/A						
FY 2011 OCO Plans: In FY 2011 OCO: N/A						
MAJOR THRUST: ISPAN Block 1 Modernization (CIE)		3.539	0.000	0.000	0.000	0.000
FY 2009 Accomplishments: In FY 2009: Funds developed, integrated and tested ISPAN Planning Tools. Efforts included, but were not limited to, completion of required Systems Engineering, development of new and modification of existing software tools to interface with newly developed ISPAN tools. The primary focus was to establish a service oriented N-Tier architecture for the ISPAN application. The new and modified tools and applications collectively form the ISPAN Collaborative Information Environment (CIE).						
FY 2010 Plans: In FY 2010: N/A						
FY 2011 Base Plans: In FY 2011: N/A						

UNCLASSIFIED

R-1 Line Item #121

Page 5 of 28

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force				DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development		R-1 ITEM NOMENCLATURE PE 0101313F: STRAT WAR PLANNING SYS - USSTRATCOM		PROJECT 675059: Strategic War Planning System (SWPS)		
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 OCO Plans: In FY 2011 OCO: N/A						
MAJOR THRUST: ISPAN Block 1 Post-IOC Enhancement FY 2009 Accomplishments: In FY 2009: Funds used to expand user base at distributed operations, continue (complete) Global Distributed Enhancement (GDE), (complete) Enterprise Service Bus migration and technology enhancements, improve Global Situational Awareness tool performance and deliver portal enhancements. FY 2010 Plans: In FY 2010: Funds will be used to develop Post IOC enhancements for web services and develop solutions for Information Assurance deficiencies. FY 2011 Base Plans: In FY 2011: N/A FY 2011 OCO Plans: In FY 2011 OCO: N/A		5.591	2.800	0.000	0.000	0.000
MAJOR THRUST: ISPAN Increment 2 Modernization FY 2009 Accomplishments: In FY 2009: N/A FY 2010 Plans: In FY 2010: Funds will be used for pre and post Milestone B development efforts for the next increment of planning tools for the ISPAN Collaborative Information Environment (CIE). Increment 2 continues by building on capabilities delivered in Block 1. Increment 2 will develop advanced decision		0.000	7.629	17.904	0.000	17.904

UNCLASSIFIED

R-1 Line Item #121

Page 6 of 28

UNCLASSIFIED

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APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development		R-1 ITEM NOMENCLATURE PE 0101313F: STRAT WAR PLANNING SYS - USSTRATCOM		PROJECT 675059: Strategic War Planning System (SWPS)		
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
support capabilities for senior leader situational awareness through enhanced data analysis and visualization, and expand development of services and operational nodes to support GIG Enterprise services and distributed operation. FY 2011 Base Plans: In FY 2011: Funds will complete development, integrate and test the advanced decision support, enhanced data analysis and visualization and GIG Enterprise service capabilities initiated in FY10. FY 2011 OCO Plans: In FY 2011 OCO: N/A						
MAJOR THRUST: ISPAN Increment 3 Modernization FY 2009 Accomplishments: In FY 2009: N/A FY 2010 Plans: In FY 2010: N/A FY 2011 Base Plans: In FY 2011: Funds pre-Milestone B risk reduction activities for the next increment of planning tools for the ISPAN Collaborative Information Environment (CIE). Builds on the capabilities and technology developed in Block 1 and Increment 2, to achieve a more complete implementation of the joint operation planning process that includes collaborative campaign/contingency planning and integrated COA development to meet the desired crisis action and time sensitive planning timelines. FY 2011 OCO Plans: In FY 2011 OCO: N/A		0.000	0.000	1.000	0.000	1.000
Accomplishments/Planned Programs Subtotals		10.614	10.429	18.904	0.000	18.904

UNCLASSIFIED

R-1 Line Item #121

Page 7 of 28

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force									DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>				R-1 ITEM NOMENCLATURE PE 0101313F: <i>STRAT WAR PLANNING SYS - USSTRATCOM</i>				PROJECT 675059: <i>Strategic War Planning System (SWPS)</i>			
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• PE 0101313F: <i>Strategic War Planning Systems (OPAF)</i>	12.487	13.212	13.344	0.000	13.344	13.588	13.823	6.877	6.989	0.000	0.000
D. Acquisition Strategy											
ISPAN will develop and modernize strategic planning tools for the combatant commanders using an evolutionary acquisition strategy with development contracts that are negotiated and awarded in a competitive environment.											
E. Performance Metrics											
Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.											

UNCLASSIFIED

R-1 Line Item #121

Page 8 of 28

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Air Force											DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development						R-1 ITEM NOMENCLATURE PE 0101313F: STRAT WAR PLANNING SYS - USSTRATCOM				PROJECT 675059: Strategic War Planning System (SWPS)				
Product Development (\$ in Millions)														
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Air Vehicle Planning System (APS)	TM	BAE San Diego, CA	0.000	0.000		0.000		0.000		0.000	0.000	0.000	47.100	
Missile Graphics Planning System (MGPS)	C/CPAF	Northrop Grumman Bellevue, NE	1.484	0.000		0.000		0.000		0.000	0.000	1.484	41.000	
Targeting	C/CPAF	SAIC San Diego, Ca	0.000	0.000		0.000		0.000		0.000	0.000	0.000	36.200	
ISPAN Modernization	C/CPAF	Lockheed Martin Integrated Systems Papillion, NE	6.385	7.692	Oct 2009	16.167	Oct 2010	0.000		16.167	25.181	55.425	164.783	
Miscellaneous Contracts	C/CPAF	TBD TBD	2.745	2.737	Oct 2009	2.737	Oct 2010	0.000		2.737	5.546	13.765	Continuing	
Classified Project (FY08 Supplemental)	TBD/TBD	TBD TBD	0.000	0.000		0.000		0.000		0.000	0.000	0.000	0.000	
Subtotal			10.614	10.429		18.904		0.000		18.904	30.727	70.674		
Remarks														
			Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals			10.614	10.429		18.904		0.000		18.904	30.727	70.674		
Remarks														
Total Prior Years Cost may include only FY 2009 data.														

UNCLASSIFIED

R-1 Line Item #121

Page 9 of 28

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force
BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

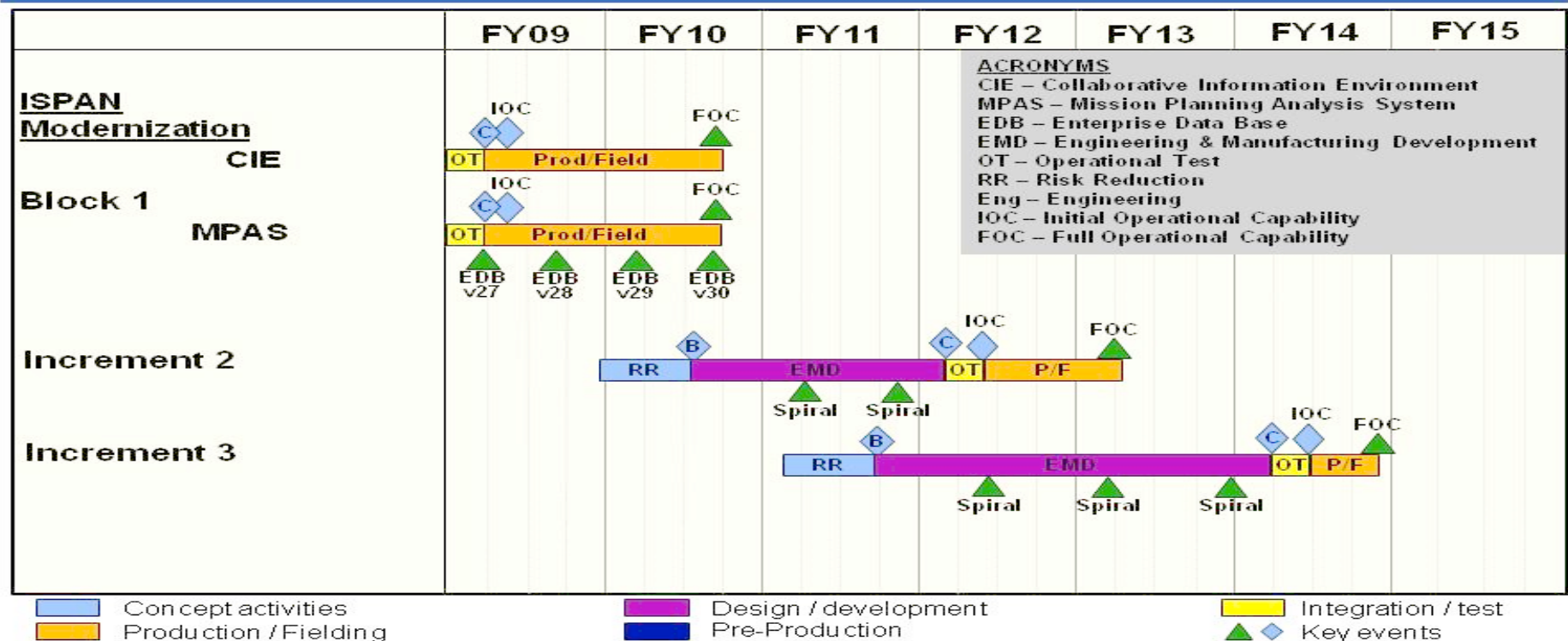
PE 0101313F: STRAT WAR PLANNING SYS -
USSTRATCOM

PROJECT

675059: Strategic War Planning System
(SWPS)



ISPAN Block 1 / Increment Schedule



11APOM R-Docs

Depicted by installation/production flow

UNCLASSIFIED

R-1 Line Item #121

Page 10 of 28

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2011 Air Force			DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0101313F: <i>STRAT WAR PLANNING SYS -</i> <i>USSTRATCOM</i>	PROJECT 675059: <i>Strategic War Planning System</i> (SWPS)	

Schedule Details

Event	Start		End	
	Quarter	Year	Quarter	Year
ISPAN Block 1 MS C	2	2009	2	2009
ISPAN Block 1 IOC	2	2009	2	2009
ISPAN Increment 2 MS B	3	2010	3	2010
ISPAN Block 1 FOC	3	2010	3	2010
ISPAN Increment 2 development	3	2010	4	2011
ISPAN Increment 3 MS B	3	2011	3	2011
ISPAN Increment 3 development	4	2011	4	2011

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force								DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>				R-1 ITEM NOMENCLATURE PE 0101313F: <i>STRAT WAR PLANNING SYS - USSTRATCOM</i>				PROJECT 675282: <i>Joint Navigation Warfare Center (JNWC)</i>			
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
675282: <i>Joint Navigation Warfare Center (JNWC)</i>	6.399	8.267	9.529	0.000	9.529	9.583	9.729	9.924	10.092	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

Navigation Warfare (NAVWAR) is a warfighting application of electronic warfare (EW), Information Operations (IO), and space control (SC) employing various techniques and technologies to negate or prevent hostile use of positioning, navigation, and timing (PNT) information and protect unimpeded use of PNT information by U.S., Allied, and Coalition Forces while not unduly disrupting peaceful use outside an area of operation. The Joint Navigation Warfare Center (JNWC) integrates and coordinates NAVWAR PNT capabilities across the mission areas of intelligence, surveillance, reconnaissance, information operations, electronic warfare, cyber and space control. The JNWC establishes and maintains the Department's premier basis of NAVWAR expertise, and provides subject matter expertise and knowledge support to warfighters, Department decision makers, the Federal Interagency (the Department of Homeland Security and other civil agencies concerned with the Critical National Infrastructure), and the coalition through testing and evaluation; modeling, simulation and analysis; and exercise and training support. In recent years, the Global Positioning System (GPS) has become one of the most critical enablers of modern, advanced technology warfare. In an era where everything from advanced weapons systems to basic goods and services are tracked or guided by navigation systems such as GPS, Navigation Warfare is an interest and concern, especially if those systems are interrupted or lost. Likewise, as Global Navigation Satellite Systems (GNSS) proliferate, it becomes necessary to consider not only denying adversary use of GPS but also negating adversary use of alternate GNSS systems for PNT. The primary mission of the JNWC is to provide joint warfighter NAVWAR support through three broad mission areas:

- Warfighter Operational Support – The JNWC applies knowledge of PNT vulnerabilities, prevention capabilities, and system operations to integrate NAVWAR as an element of warfighting operations. The JNWC provides reach-back capabilities to assist in resolving NAVWAR issues, address situations involving degradation or denial of PNT capabilities, and recommend actions to mitigate effects of both hostile and non-hostile events. The JNWC develops and maintains current information for the warfighter and theater commanders to include assessments of adversary capabilities, assessments of coalition capabilities and limitations, and other topics of special interest. The JNWC also provides subject matter expertise and knowledge support to Department acquisition and policy decision makers, the Federal Interagency (the Department of Homeland Security and other civil agencies concerned with the Critical National Infrastructure), and the coalition.
- Test, Training, Exercises, and Experiments – This JNWC mission area is the centerpiece for maintaining NAVWAR currency of information for the warfighter. The JNWC conducts annual NAVWAR field test events, and provides NAVWAR technical assistance for training, exercises and experiments. The JNWC, as part of this effort, maintains Integrated Joint NAVWAR Test Roadmaps and current intelligence products on adversary NAVWAR capabilities and Coalition NAVWAR capabilities

UNCLASSIFIED

R-1 Line Item #121

Page 12 of 28

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force				DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development		R-1 ITEM NOMENCLATURE PE 0101313F: STRAT WAR PLANNING SYS - USSTRATCOM		PROJECT 675282: Joint Navigation Warfare Center (JNWC)		
and vulnerabilities. JNWC GYPSY field test events focus on fielded operational systems and capabilities to integrate NAVWAR and PNT operations, to baseline current NAVWAR electronic protection, support, and attack capabilities, and to assist warfighters optimize and deconflict theater/tactical assets. JNWC FORTUNE field test events are more engineering focused and are used to evaluate specific NAVWAR capabilities or vulnerabilities, and to reduce engineering risk for GYPSY events. Test, training, exercise and experiment activities: 1) prepare the joint warfighter for operations in current and rapidly evolving NAVWAR threat environments; 2) establish priorities, standardized operational procedures for tactics, techniques, and procedures; 3) test electronic attack CONOPs to endure deconfliction and optimization with other operations to mitigate blue force fratricide; and 4) evolve standardized test methods.						
c. Navigation Warfare Information Analysis Center (IAC) – The JNWC develops and maintains methods, standards, models and simulations used in NAVWAR analysis and operates the NAVWAR Information Analysis Center (IAC). JNWC evaluates new models for accuracy and applicability to specific situations and rapidly evolving threat environments. It also develops and maintains standard test methodologies created solely by the U.S. as well as test methods developed in collaboration with coalition partners. These standard methodologies ensure data sharing is efficient and effective, and ensures accurate feedback to the operational communities. The JNWC, as part of this effort, manages the GPS EA Frequency Clearance process and conducts independent analysis and verification of EA frequency clearance requests. It also maintains and upgrades the GPS-RPM GPS frequency clearance model as required and conducts modeling and simulation exercises on GPS interference to include test and exercise threat laydowns for DoD organizations unable to perform their own modeling. The NAVWAR IAC serves as a source of NAVWAR information and technical expertise for DoD researchers, engineers, program managers, warfighters, testers, and others. It collects, analyzes, synthesizes, and disseminates scientific and technical information in clearly defined specialized subject areas. It promotes standardization by: 1) providing in-depth analyses; 2) creating products that respond to technical inquiries; 3) preparing state-of-the-art reports, handbooks, and databases; 4) conducting technology assessments; and 5) supporting the exchange of information within the NAVWAR community.						
Activities also include studies and analysis to support both current program planning and execution and future program planning.						
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
MAJOR THRUST: NAVWAR Operational Warfighter Support		1.455	1.780	2.223	0.000	2.223
FY 2009 Accomplishments: In FY 2009: Funds provided COCOM reachback analysis and develop adversary, threat and intel assessments.						

UNCLASSIFIED

R-1 Line Item #121

Page 13 of 28

UNCLASSIFIED

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B. Accomplishments/Planned Program (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2010 Plans: In FY 2010: Funds will provide COCOM reachback analysis and develop adversary, threat and intel assessments.					
FY 2011 Base Plans: In FY 2011: Funds will provide COCOM reachback analysis and develop adversary, threat and intel assessments.					
FY 2011 OCO Plans: In FY 2011 OCO: N/A					
MAJOR THRUST: NAVWAR Test, Training, Exercises and Experiments	2.447	3.041	3.502	0.000	3.502
FY 2009 Accomplishments: In FY 2009: Funds used to support FORTUNE and GYPSY Field Tests, NATO trials, U.S. PNT Tests, Exercises and Experiments.					
FY 2010 Plans: In FY 2010: Funds will support FORTUNE and GYPSY Field Tests, NATO trials, U.S. PNT Tests, Exercises and Experiments.					
FY 2011 Base Plans: In FY 2011: Funds will support FORTUNE and GYPSY Field Tests, NATO trials, U.S. PNT Tests, Exercises and Experiments.					
FY 2011 OCO Plans: In FY 2011 OCO: N/A					
MAJOR THRUST: NAVWAR Modeling, Simulation, Tools and Methods	2.497	3.446	3.804	0.000	3.804

UNCLASSIFIED

R-1 Line Item #121

Page 14 of 28

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force							DATE: February 2010				
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B. Accomplishments/Planned Program (\$ in Millions)											
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
<i>FY 2009 Accomplishments:</i> In FY 2009: Funds used to support Information Analysis Center (IAC), develop Global Positioning System Reliability Prediction Model (GPS-RPM) Upgrades, GPS frequency clearance evaluations, modeling and simulation methodologies, standards and analysis.											
<i>FY 2010 Plans:</i> In FY 2010: Funds will support the Information Analysis Center (IAC), develop Global Positioning System Reliability Prediction Model (GPS-RPM) Upgrades, GPS frequency clearance evaluations, modeling and simulation methodologies, standards and analysis.											
<i>FY 2011 Base Plans:</i> In FY 2011: Funds will support the Information Analysis Center (IAC), develop Global Positioning System Reliability Prediction Model (GPS-RPM) Upgrades, GPS frequency clearance evaluations, modeling and simulation methodologies, standards and analysis.											
<i>FY 2011 OCO Plans:</i> In FY 2011 OCO: N/A											
Accomplishments/Planned Programs Subtotals						6.399	8.267	9.529	0.000	9.529	
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• PE Not Provided (3121): <i>Activity Not Provided</i>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
D. Acquisition Strategy											
NAVWAR will investigate, test, and simulate potential threats and mitigation strategies for preventing the hostile use of Positioning, Navigation and Timing (PNT) information through the use of competitive contracts and selective employment of government agencies.											

UNCLASSIFIED

R-1 Line Item #121

Page 15 of 28

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0101313F: <i>STRAT WAR PLANNING SYS -</i> <i>USSTRATCOM</i>	PROJECT 675282: <i>Joint Navigation Warfare Center</i> <i>(JNWC)</i>
E. Performance Metrics Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Air Force										DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development					R-1 ITEM NOMENCLATURE PE 0101313F: STRAT WAR PLANNING SYS - USSTRATCOM				PROJECT 675282: Joint Navigation Warfare Center (JNWC)				
Support (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
NAVWAR Warfighter Operational Support	TM	Overlook Systems Technologies Inc Vienna VA; Kirtland AFB, NM	1.455	1.780	Nov 2009	2.223	Nov 2010	0.000		2.223	Continuing	Continuing	Continuing
NAVWAR Modeling, Simulation, Tools & Methods and Integrated Analysis Center	TM	Overlook Systems Technologies Inc Vienna VA; Kirtland AFB, NM	2.497	3.446	Nov 2009	3.804	Nov 2010	0.000		3.804	Continuing	Continuing	Continuing
Subtotal			3.952	5.226		6.027		0.000		6.027			
Remarks													
Test and Evaluation (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
FORTUNE and GYPSY field tests, NATO trials, US Tests, Exercises and Experiments	PO	Overlook Systems Technologies Inc Vienna VA; Kirtland AFB, NM	2.447	3.041	Nov 2009	3.502	Nov 2010	0.000		3.502	Continuing	Continuing	Continuing
Subtotal			2.447	3.041		3.502		0.000		3.502			

UNCLASSIFIED

R-1 Line Item #121

Page 17 of 28

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Air Force											DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>				R-1 ITEM NOMENCLATURE PE 0101313F: <i>STRAT WAR PLANNING SYS - USSTRATCOM</i>				PROJECT 675282: <i>Joint Navigation Warfare Center (JNWC)</i>					
Test and Evaluation (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Remarks Multiple Government Agencies and Test Ranges													
			Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			6.399	8.267		9.529		0.000		9.529			
Remarks Total Prior Years Cost may include only FY 2009 data.													

UNCLASSIFIED

R-1 Line Item #121

Page 18 of 28

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force
BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

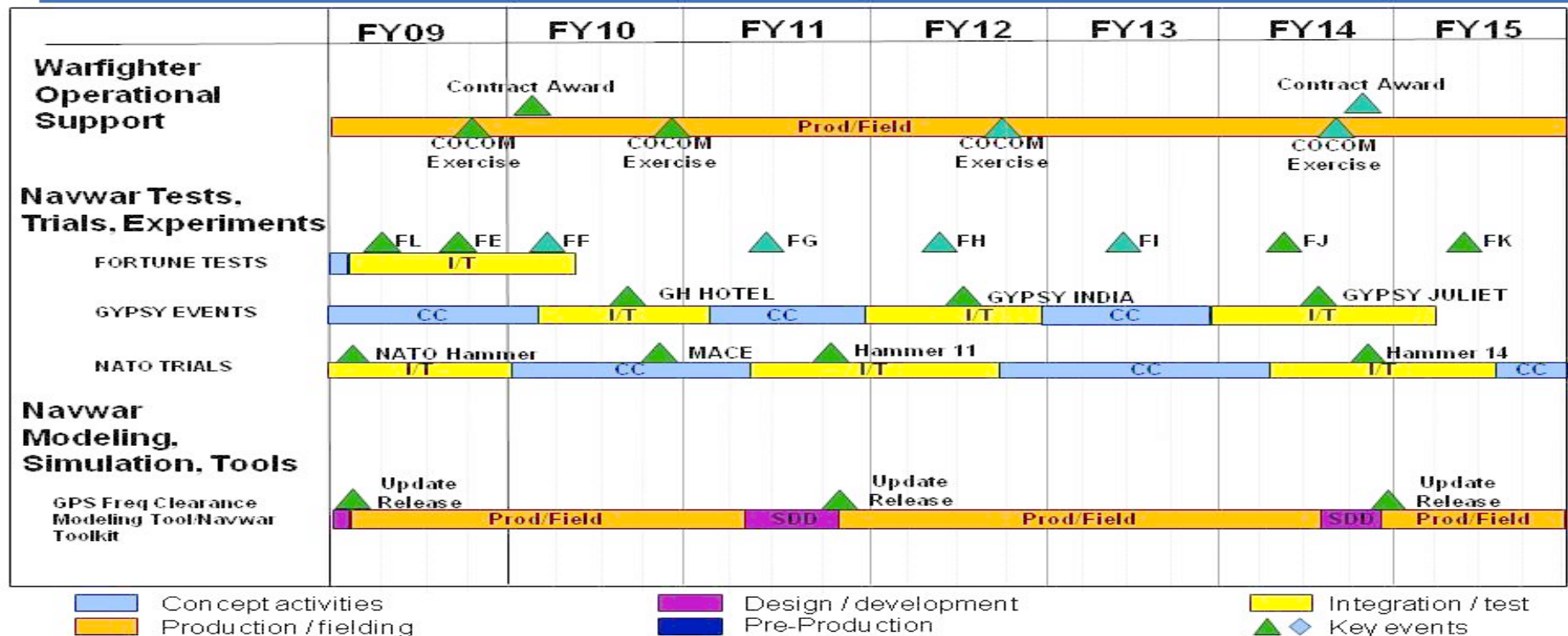
PE 0101313F: STRAT WAR PLANNING SYS -
USSTRATCOM

PROJECT

675282: Joint Navigation Warfare Center
(JNWC)



Navwar Program Schedule



PB10 R-Docs

UNCLASSIFIED

R-1 Line Item #121

Page 19 of 28

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2011 Air Force			DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0101313F: <i>STRAT WAR PLANNING SYS -</i> <i>USSTRATCOM</i>	PROJECT 675282: <i>Joint Navigation Warfare Center</i> <i>(JNWC)</i>	

Schedule Details

Event	Start		End	
	Quarter	Year	Quarter	Year
NAVWAR Operational Support Contract Award	1	2010	1	2010
NAVWAR Test, Training, Exercises and Experiments - FORTUNE Field Tests	2	2009	2	2011
NAVWAR Test, Training, Exercises & Experiments - GYPSY HOTEL Tests	3	2010	3	2010
NAVWAR Test, Training, Exercises & Experiments - NATO Trials & Exercises	1	2009	4	2011
GPS Frequency Clearance	1	2009	4	2011

UNCLASSIFIED

R-1 Line Item #121

Page 20 of 28

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force								DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>				R-1 ITEM NOMENCLATURE PE 0101313F: <i>STRAT WAR PLANNING SYS - USSTRATCOM</i>				PROJECT 675368: <i>GSIN (Global Sensor Integrated Network)</i>			
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
675368: <i>GSIN (Global Sensor Integrated Network)</i>	0.000	15.050	0.008	0.000	0.008	0.009	0.013	0.016	0.017	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
<p>Note In FY2010 Project 5368, Global Sensor Integrated Network (GSIN) transferred from PE 0105921F, Service Support to STRATCOM Space Activities, in order to better align effort and appropriation.</p> <p>A. Mission Description and Budget Item Justification The mission of USSTRATCOM is to establish and provide full-spectrum global strike, coordinated space and information operations capabilities to meet both deterrent and decisive national security objectives, and to provide operational space support, integrated missile defense, Global Command Control Communications and Computers Intelligence Surveillance and Reconnaissance (C4ISR), and specialized planning expertise to the joint warfighter. This mission has been defined by the 2002 Unified Command Plan (UCP) changes 1 and 2. GSIN nets together all sensors, from tactical to strategic, including the Nation's most modern and capable assets - taking advantage of their larger numbers, improved algorithms, mobility and forward deployment to provide earlier cross-cueing and expanded decision space when every second counts. GSIN will permit an IP-based User Defined Operating Picture (UDOP) to augment voice conferencing and rapidly build a single, unambiguous missile event picture allowing real-time senior collaboration for nuclear C2 and improved senior leader situational awareness (SA) and decision-making.</p> <p>The Nation's strategic C2, sensors and mission planning programs can not rapidly exchange information across multiple missions, creating ambiguity that delays time critical national C2 decision making processes. The problem is most evident in the Department's missile warning (MW) and missile defense (MD) programs. GSIN establishes a unified national architecture integrating disparate MW/MD systems into a single IP-based system providing redundant and unambiguous MW/MD data to national leadership.</p> <p>Activities also include studies and analysis to support both current program planning and execution and future program planning.</p> <p>B. Accomplishments/Planned Program (\$ in Millions)</p>											

UNCLASSIFIED

R-1 Line Item #121

Page 21 of 28

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force				DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development		R-1 ITEM NOMENCLATURE PE 0101313F: STRAT WAR PLANNING SYS - USSTRATCOM		PROJECT 675368: GSIN (Global Sensor Integrated Network)		
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
MAJOR THRUST: GSIN Increment 1 Missile Defense (MD) FY 2009 Accomplishments: In FY 2009: N/A FY 2010 Plans: In FY 2010: Funds will design and develop Missile Defense (MD) harmonized data and exposure services. Options and implementation plans will be developed for the incremental software to mature data exposure capabilities and migrate data to a common, XML net-enabled command capability solution. The MD visualization service and data correlation risk reduction evaluation capability will also be developed FY 2011 Base Plans: In FY 2011: N/A FY 2011 OCO Plans: In FY 2011 OCO: N/A		0.000	7.710	0.000	0.000	0.000
MAJOR THRUST: GSIN Increment 1 Missile Warning (MW) FY 2009 Accomplishments: In FY 2009: N/A FY 2010 Plans: In FY 2010: Funds will design and develop Missile Warning (MW) options and implementation plans for the incremental software development to mature data exposure capabilities and migrate data to a common, XML data schema. Funds will also develop net-enabled command capability solution individual sensor and event track data, status and health data, additional information assurance capabilities and public key infrastructure certificate software management on secret IP routing networks (SIPRnet).		0.000	4.340	0.000	0.000	0.000

UNCLASSIFIED

R-1 Line Item #121

Page 22 of 28

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force				DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development		R-1 ITEM NOMENCLATURE PE 0101313F: STRAT WAR PLANNING SYS - USSTRATCOM		PROJECT 675368: GSIN (Global Sensor Integrated Network)		
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 Base Plans: In FY 2011: N/A						
FY 2011 OCO Plans: In FY 2011 OCO: N/A						
MAJOR THRUST: GSIN Increment 1 Interoperability		0.000	3.000	0.008	0.000	0.008
FY 2009 Accomplishments: In FY 2009: N/A						
FY 2010 Plans: In FY 2010: Funds will develop software for DISA secret and below interoperability; create and coordinate Information Assurance documentation; support security test and evaluation; conduct development, non-degradation, and operational testing. Registers data schema and services with appropriate registries/catalogs, system and software accreditation.						
FY 2011 Base Plans: In FY 2011: Funds continue software development for DISA secret and below interoperability; support security test and evaluation; conduct development, non-degradation, and operational testing.						
FY 2011 OCO Plans: In FY 2011 OCO: N/A						
Accomplishments/Planned Programs Subtotals		0.000	15.050	0.008	0.000	0.008

UNCLASSIFIED

R-1 Line Item #121

Page 23 of 28

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force									DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0101313F: STRAT WAR PLANNING SYS - USSTRATCOM				PROJECT 675368: GSIN (Global Sensor Integrated Network)			
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• PE 0105921F: Service Support to STRATCOM Space Activities (O&M)	5.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.000	5.000
D. Acquisition Strategy											
GSIN will use ESC, MDA, and other contract vehicles to manage, develop and modernize the combined Missile Warning/Missile Defense data exposure architecture and solution. These contract vehicles are already in place and available.											
E. Performance Metrics											
Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.											

UNCLASSIFIED

R-1 Line Item #121

Page 24 of 28

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Air Force											DATE: February 2010																																																																																													
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>				R-1 ITEM NOMENCLATURE PE 0101313F: <i>STRAT WAR PLANNING SYS - USSTRATCOM</i>				PROJECT 675368: <i>GSIN (Global Sensor Integrated Network)</i>																																																																																																
<p>Product Development (\$ in Millions)</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Cost Category Item</th> <th rowspan="2">Contract Method & Type</th> <th rowspan="2">Performing Activity & Location</th> <th rowspan="2">Total Prior Years Cost</th> <th colspan="2">FY 2010</th> <th colspan="2">FY 2011 Base</th> <th colspan="2">FY 2011 OCO</th> <th>FY 2011 Total</th> <th rowspan="2">Cost To Complete</th> <th rowspan="2">Total Cost</th> <th rowspan="2">Target Value of Contract</th> </tr> <tr> <th>Cost</th> <th>Award Date</th> <th>Cost</th> <th>Award Date</th> <th>Cost</th> <th>Award Date</th> <th>Cost</th> </tr> </thead> <tbody> <tr> <td>Missile Warning software development</td> <td>C/CPIF</td> <td>Lockheed Martin Colorado Springs, CO</td> <td align="right">0.000</td> <td align="right">1.000</td> <td>Jan 2010</td> <td align="right">0.000</td> <td>Jan 2011</td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td align="right">0.000</td> <td align="right">1.000</td> <td align="right">0.000</td> </tr> <tr> <td>Missile Defense software development</td> <td>C/CPAF</td> <td>Lockheed Martin Gaithersburg, MD</td> <td align="right">0.000</td> <td align="right">7.000</td> <td>Jan 2010</td> <td align="right">0.000</td> <td>Jan 2011</td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td>Continuing</td> <td>Continuing</td> <td>Continuing</td> </tr> <tr> <td>Data Correlation</td> <td>C/CPAF</td> <td>MIT/LL Boston, MA</td> <td align="right">0.000</td> <td align="right">3.700</td> <td>Jan 2010</td> <td align="right">0.000</td> <td>Jan 2011</td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td align="right">0.000</td> <td align="right">3.700</td> <td align="right">0.000</td> </tr> <tr> <td>Common Schema</td> <td>C/CPAF</td> <td>BAH Omaha, NE</td> <td align="right">0.000</td> <td align="right">2.240</td> <td>Jan 2010</td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td align="right">0.000</td> <td align="right">2.240</td> <td align="right">0.000</td> </tr> <tr> <td align="right" colspan="3">Subtotal</td><td align="right">0.000</td><td align="right">13.940</td><td></td><td align="right">0.000</td><td></td><td align="right">0.000</td><td></td><td align="right">0.000</td><td></td><td></td><td></td> </tr> </tbody> </table>														Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Missile Warning software development	C/CPIF	Lockheed Martin Colorado Springs, CO	0.000	1.000	Jan 2010	0.000	Jan 2011	0.000		0.000	0.000	1.000	0.000	Missile Defense software development	C/CPAF	Lockheed Martin Gaithersburg, MD	0.000	7.000	Jan 2010	0.000	Jan 2011	0.000		0.000	Continuing	Continuing	Continuing	Data Correlation	C/CPAF	MIT/LL Boston, MA	0.000	3.700	Jan 2010	0.000	Jan 2011	0.000		0.000	0.000	3.700	0.000	Common Schema	C/CPAF	BAH Omaha, NE	0.000	2.240	Jan 2010	0.000		0.000		0.000	0.000	2.240	0.000	Subtotal			0.000	13.940		0.000		0.000		0.000			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract																																																																																											
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost																																																																																														
Missile Warning software development	C/CPIF	Lockheed Martin Colorado Springs, CO	0.000	1.000	Jan 2010	0.000	Jan 2011	0.000		0.000	0.000	1.000	0.000																																																																																											
Missile Defense software development	C/CPAF	Lockheed Martin Gaithersburg, MD	0.000	7.000	Jan 2010	0.000	Jan 2011	0.000		0.000	Continuing	Continuing	Continuing																																																																																											
Data Correlation	C/CPAF	MIT/LL Boston, MA	0.000	3.700	Jan 2010	0.000	Jan 2011	0.000		0.000	0.000	3.700	0.000																																																																																											
Common Schema	C/CPAF	BAH Omaha, NE	0.000	2.240	Jan 2010	0.000		0.000		0.000	0.000	2.240	0.000																																																																																											
Subtotal			0.000	13.940		0.000		0.000		0.000																																																																																														
Remarks																																																																																																								
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Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract																																																																																											
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Functional management support	C/CPAF	Various Various	0.000	0.410	Jan 2010	0.002	Jan 2011	0.000		0.002	Continuing	Continuing	0.000																																																																																											
Development Review and Management	C/FP	Various Various	0.000	0.700	Jan 2010	0.006	Jan 2011	0.000		0.006	0.000	0.706	0.000																																																																																											
Subtotal			0.000	1.110		0.008		0.000		0.008			0.000																																																																																											

UNCLASSIFIED

R-1 Line Item #121

Page 25 of 28

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Air Force											DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>				R-1 ITEM NOMENCLATURE PE 0101313F: <i>STRAT WAR PLANNING SYS - USSTRATCOM</i>				PROJECT 675368: <i>GSIN (Global Sensor Integrated Network)</i>					
Support (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Remarks													
			Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.000	15.050		0.008		0.000		0.008			
Remarks Total Prior Years Cost may include only FY 2009 data.													

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Exhibit R-4, RDT&E Schedule Profile: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force
BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

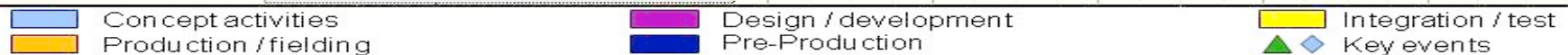
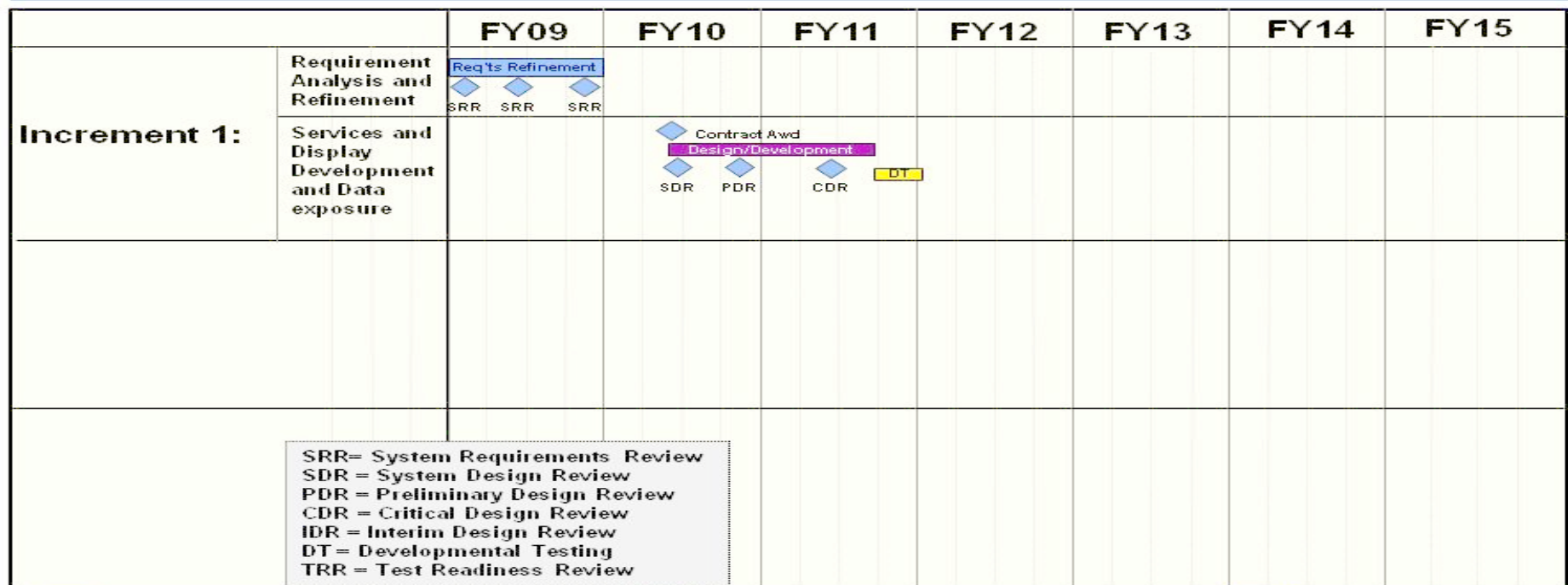
PE 0101313F: STRAT WAR PLANNING SYS -
USSTRATCOM

PROJECT

675368: GSIN (Global Sensor Integrated
Network)



GSIN Schedule



PB10 R-Docs

Depicted by installation/production flow

1

UNCLASSIFIED

R-1 Line Item #121

Page 27 of 28

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2011 Air Force			DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0101313F: <i>STRAT WAR PLANNING SYS -</i> <i>USSTRATCOM</i>	PROJECT 675368: <i>GSIN (Global Sensor Integrated Network)</i>	

Schedule Details

Event	Start		End	
	Quarter	Year	Quarter	Year
Systems Requirement Review Missile Warning Capability	1	2009	4	2009
Increment 1 contract award	2	2010	2	2010
Increment 1 System Design Review (MW Capability)	2	2010	2	2010
Increment 1 Preliminary Design Review (MW Capability)	4	2010	4	2010
Increment 1 Critical Design Review (MW Capability)	2	2011	2	2011

UNCLASSIFIED

R-1 Line Item #121

Page 28 of 28